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NOTICE OF ALLOWANCE AND FEE(S) DUE

10/10/2007

ROPES & GRAY LLP PATENT DOCKETING 39/361 1211 AVENUE OF THE AMERICAS NEW YORK, NY 10036-8704

EXAMINER BAYARD, EMMANUEL ART UNIT PAPER NUMBER

2611 DATE MAILED: 10/10/2007

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/668 900	09/22/2003	Kazi Asaduzzaman	174/277	2500

10/668,900 09/22/2003 TITLE OF INVENTION: CLOCK DATA RECOVERY CIRCUITRY WITH DYNAMIC SUPPORT FOR CHANGING DATA RATES AND A

DYNAMICALLY ADJUSTABLE PPM DETECTOR

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$0	\$0	\$1440	01/10/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B -Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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anneaminta All further	correspondence including ad below or directed oth	a the	Patent advance or	of the corresponding and corresponding and corresponding and corresponding and corresponding the corre	aintenance fees wondence address;	and/or	(b) indicating a sepa	nould be completed where correspondence address as rate "FEE ADDRESS" for
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NEW YORK, N	Y 10036-8704							(Depositor's name)
								(Signature)
	-			<u></u>				(Date)
APPLICATION NO.	FILING DATE			FIRST NAMED INVENTOR		ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/668,900	09/22/2003			Kazi Asaduzzaman			174/277	2500
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APPLN. TYPE	SMALL ENTITY	IS	SUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE	FEE	TOTAL FEE(S) DUE	DATE DUE
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BAYARD, E	MMANUEL		2611	375-359000				
CFR 1.363). Change of corresp Address form PTO/SI "Fee Address" ind PTO/SB/47; Rev 03-(Number is required. ASSIGNEE NAME A	pondence address (or Cha B/122) attached. lication (or "Fee Address 02 or more recent) attach ND RESIDENCE DATA less an assignee is ident th in 37 CFR 3.11. Com	Indicated Indica	Correspondence ation form e of a Customer BE PRINTED ON actions of the control o	2. For printing on the position (1) the names of up to or agents OR, alternative (2) the name of a single registered attorney or a 2 registered patent attorney of the position of the position (1) the position of the positi	3 registered patentely, e firm (having as a gent) and the nammeys or agents. If printed. e) atent. If an assignassignment.	membes of u	p to p to ne is 3 dentified below, the d	ocument has been filed for
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a Applicant claim	ns SMALL ENTITY stat	us. See	37 CFR 1.27.	☐ b. Applicant is no lon	ger claiming SMA	LL EN	TITY status. See 37 C	FR 1.27(g)(2).
NOTE: The Issue Fee ar interest as shown by the	nd Publication Fee (if rec records of the United St	uired) ates Pa	will not be accepte tent and Trademark	ed from anyone other than t k Office.	he applicant; a reg	istered	attorney or agent; or the	he assignee or other party in
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10/668,900	09/22/2003	/	Kazi Asaduzzaman	174/277	2500			
36981 75	590 10/10/2007			. EXAMINER				
ROPES & GRAN				BAYARD, EM	MMANUEL			
PATENT DOCKE				ART UNIT	PAPER NUMBER			
1211 AVENUE O	F THE AMERICAS 10036-8704	•		2611 DATE MAILED: 10/10/2007	7			
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Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 724 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 724 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

•	Application No.	Applicant(s)
·	10/668,900	ASADUZZAMAN ET AL.
Notice of Allowability	Examiner	Art Unit
	Emmanuel Bayard	2611
The MAILING DATE of this communication apper All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication IGHTS. This application is subject to	olication. If not included will be mailed in due course. THIS
1. A This communication is responsive to <u>amendment filed on 8</u>	<u>3/14/07</u> .	
2. The allowed claim(s) is/are <u>2-6,9-12,16-27, 29, and 31-40</u> .		
 3. Acknowledgment is made of a claim for foreign priority unal All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority do 	e been received. e been received in Application No	
International Bureau (PCT Rule 17.2(a)).	cuments have been received in this	national stage application from the
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements
4. A SUBSTITUTE OATH OR DECLARATION must be subminFORMAL PATENT APPLICATION (PTO-152) which give		
5. CORRECTED DRAWINGS (as "replacement sheets") must	st be submitted.	
(a) ☐ including changes required by the Notice of Draftspers		948) attached
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date		•
(b) ☐ including changes required by the attached Examiner Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in	I.84(c)) should be written on the drawi the header according to 37 CFR 1.121(ngs in the front (not the back) of d).
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT	osit of BIOLOGICAL MATERIAL I FOR THE DEPOSIT OF BIOLOGIC	must be submitted. Note the AL MATERIAL.
Attachment(s)	5. Notice of Informal F	Patent Application
Notice of References Cited (PTO-892) Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summary	
3. ☑ Information Disclosure Statements (PTO/SB/08),	Paper No./Mail Da 7. ⊠ Examiner's Amend	te
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit	8 🕅 Evaminar's Statem	ent of Reasons for Allowance
of Biological Material	9. ☐ Other	on Neasons to Allowance

Application/Control Number: 10/668,900

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DETAILED ACTION

This is in response to communication filed on 8/14/07 in which claim 2-6, 9-12, 16-27, 29 and 31-40 are pending. The applicant's amendments have been fully considered therefore this is in condition for allowance. In addition the pending claims have been renumbered as 2-14, 1, 15-19, 23-29, 20-22 and 30-32, respectively.

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Michael Chasan on 9/21/07.

The application has been amended as follows: In line 4 of claim 38, "protocol" has been deleted and replaced with --data rate--.

Allowable Subject Matter

The following is an examiner's statement of reasons for allowance: the prior arts of record fail to anticipate or render obvious the following recited features: a dynamically adjustable parts per million (PPM) detector that receives as input the reference clock signal, the recovered clock signal, and a PPM control signal operative to output a signal when a frequency difference between the reference clock signal and the recovered clock signal is within a dynamically controllable frequency setting controlled by the PPM control signal as recited in claim 20. Determining when a frequency difference between

Application/Control Number: 10/668,900

Art Unit: 2611

the reference clock signal and the recovered clock signal is within a predetermined dynamically controllable frequency setting controlled by a PPM control signal as recited in claim 26.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

1. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Prentice et al U.S. patent NO 6,397,042 B1 teaches a self test of an electronic device.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Emmanuel Bayard whose telephone number is 571 272 3016. The examiner can normally be reached on Monday-Friday (7:Am-4:30PM) Alternate Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chieh Fan can be reached on 571 272 3042. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2611

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

9/21/2007

FORM PTO-14	U.S. DE	PART F ANI	MENT OF	COMMERCE ARK OFFICE	ATTY. DOCK 174/277	ET NO.		PPLICATION /668,900	NO.	
	INFORMATION STATEMENT				APPLICANTS Kazi Asaduzzaman et al.			CONFIRMATION NO. 2500		
OIPE	STATEMEN	1 61	APPLIÇAN	13	FILING DATE September 22		ROUP ART U	NIT		
OCT 2 9 2004			u.s.	PATENT APPLI	CATIONS					
EXAMINER INITIAL	DOCUMENT NUMBER		DATE	NAME	CLASS	SUBCLAS	s	FILING D		
/E.B./	10/059,014			Lee et al.				01/29/	02	
1	10/273,899			Venkata et al.				10/16/	02	
	10/317,262			Venkata et al.				12/10/	02	
-, ,	10/454,626			Lui et al.				06/03/	03	
$\overline{}$	10/349,541			Venkata et al.				01/21/	03	
/E.B./	10/637,982			Venkata et al.				08/08/	03	
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/E.B./	US 2001/003318		10/25/01	Aung et al.	327	141				
/E.B./	US 2003/005270	9 A1	03/20/03	Venkata et al.	326	37				
	<u></u>		us	. PATENT DOC	JMENTS					
/C D /	6,483,886 B1	1	11/19/02	Sung et al.	375	376				
/E.B./ /E.B			11/18/03	Lee et al.	326	39		03/06/	02	
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EXAMINER	DOCUMENT		DATE	COUNTRY	CLASS	SUBCLAS	S	TRANSLA	ATION	
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	OTHER DO	CUM	ENTS (Incl	uding Author, T	itle, Date, Pert	inent Pages,	ETC	.)		
EXAMINER INITIAL										

EXAMINER

/Emmanuel Bayard/

DATE CONSIDERED

09/21/2007

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not conformance and not considered. Include copy of this form with next communication to applicant.

Notice of References Cited Application/Control No. | Applicant(s)/Patent Under Reexamination | ASADUZZAMAN ET AL. | Examiner | Art Unit | Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	Α	US-6,397,042	05-2002	Prentice et al.	455/67.14
	В	US-			
	С	US-			
	D	US-			
	Ε	US-			
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FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
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NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)	
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*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).) Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

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